Attorney Docket No. 54795-8002.US00



INVENTORSHIP DECLARATION BY JOINT INVENTORS

I HEREBY DECLARE THAT:

My residence, mailing address, and citizenship are stated next to my name in PART A hereof.

I believe I am the original, first, and joint inventor of the subject matter which is claimed and for which a patent is sought on the invention entitled:

Membrane-Based Assays

the specification of which was filed on 09/11/2003 and assigned serial number 10/661,790.

I have reviewed and understand the contents of the above-identified specification, including the claims, as amended by any amendment referred to above.

I acknowledge the duty to disclose information which is material to the examination of this application in accordance with Title 37, Code of Federal Regulations, §1.56.

I hereby claim priority benefits under Title 35, United States Code §119 of any foreign application(s) for patent or inventor's certificate listed in PART B hereof and have also identified in PART B on hereof any foreign application for patent or inventor's certificate having a filing date before that of the application of which priority is claimed.

I hereby claim the benefit under Title 35, United States Code §119(e) and §120, of any United States application(s) listed in PART C hereof and, insofar as the subject matter of each of the claims of this application is not disclosed in the prior United States application in the manner provided by the first paragraph by the first paragraph of Title 35, United States Code §112, I acknowledge the duty to disclose material information as defined in Title 37, Code of Federal Regulations §1.56 which occurred between the filing date of the prior application and any national or PCT international filing date of this application.

I hereby declare that all statements made herein of my knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

Please direct all telephone calls to Jacqueline F. Mahoney at (650) 838-4410. Address all correspondence to:

Perkins Coie LLP P.O. Box 2168 Menlo Park, CA 94026 Customer No. 22918

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Attorney Docket No. 54795-8002.US00

INVENTORSHIP DECLARATION BY JOINT INVENTORS

PART A: INVENTOR INFORMATION AND SIGNATURE

Full name of FIRST invent	tor: <u>Victoria Yamaza</u>	ıki			
Citizenship: <u>US</u>	Mailing Address:	77 Dow Place, Apt. 907 San Francisco, CA 94107			
Residence (if different):	_				
Inventor's Signature: //	ntria Mo	Date: January 23, 2006			
Full name of SECOND inv	entor: Robert J. Sc	hafer			
Citizenship: <u>US</u>	Mailing Address:	820 San Ramon Way Sacramento, CA 95864			
Residence (if different):					
Inventor's Signature:		Date:			
Full name of THIRD inver	ntor: <u>Morrison Ulma</u>	n			
Citizenship: <u>US</u>	Mailing Address:	2295 Latham St., Apt. 8 Mountain View, CA 94040-1600			
Residence (if different):					
Inventor's Signature:		Date:			
Full name of FOURTH in	ventor: John T. Gro	ves			
Citizenship: <u>US</u>					
Residence (if different):					
Inventor's Signature:		Date:			
PART B: <u>CLAIM TO PRIO</u> § 119(a-d)	RITY OF FOREIGN APP	PLICATION(S) UNDER 35 U.S.C.			
Country	Арр. N	o. Filing Date			
PART C: CLAIM TO PRIORITY OF U.S. PROVISIONAL AND NONPROVISIONAL APPLICATION(S) UNDER 35 U.S.C. § 119(e) AND § 120					
Serial No.	Filing D	A 4			
60/410 173	09/11/2	002 Abandoned			

Attorney Docket No. 54795-8002.US00

INVENTORSHIP DECLARATION BY JOINT INVENTORS PART A: INVENTOR INFORMATION AND SIGNATURE

rull name of FIRS I inver	ntor: <u>Victoria Yamaz</u> a	aki			
Citizenship: <u>US</u>	Mailing Address:	77 Dow Place, Apt. 907 San Francisco, CA 94107			
Residence (if different):					
Inventor's Signature:		Date:			
Full name of SECOND in	ventor: Robert J. Sc	hafer			
		820 San Ramon Way			
Residence (if different):	, ,	Sacramento, CA 95864			
	ull	Date: \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \			
Full name of THIRD inver	ntor: <u>Morrison U</u> lmar	1			
Citizenship: <u>US</u>		2295 Latham St., Apt. 8 Mountain View, CA 94040-1600			
Residence (if different):					
Inventor's Signature:		Date:			
Full name of FOURTH inv	ventor: <u>John T. Grov</u>	es			
Citizenship: <u>US</u>		221 Stonewall Berkeley, CA 94705			
Residence (if different):					
Inventor's Signature:		Date:			
PART B: CLAIM TO PRIORI § 119(a-d)	TY OF FOREIGN APPLI	CATION(S) UNDER 35 U.S.C.			
Country	App. No.	Filing Date			
PART C: CLAIM TO PRIORITY OF U.S. PROVISIONAL AND NONPROVISIONAL APPLICATION(S) UNDER 35 U.S.C. § 119(e) AND § 120					
Serial No.	Filing Date				
60/410,173	09/11/2002	2 Abandoned			

INVENTORSHIP DECLARATION BY JOINT INVENTORS

PART A: INVENTOR INFORMATION AND SIGNATURE

Full name of FIRST inventor: <u>Victoria Yamazaki</u>					
Citizenship: <u>US</u>	Mailing Address:	77 Dow Place, Apt. 907 San Francisco, CA 94107			
Residence (if different):					
Inventor's Signature:		Date:			
Full name of SECOND inventor: Robert J. Schafer					
Citizenship: <u>US</u>	Mailing Address:	820 San Ramon Way Sacramento, CA 95864			
Residence (if different):					
Inventor's Signature:		Date:			
Full name of THIRD inven	tor: <u>Morrison Ulman</u>				
Citizenship: <u>US</u>	Mailing Address:	2295 Latham St., Apt. 8 Mountain View, CA 94040-1600			
Residence (if different):					
Inventor's Signature:	Morrison VI	man Date: 12/28/2005.			
Full name of FOURTH inventor: <u>John T. Groves</u>					
Citizenship: <u>US</u>	Mailing Address:	221 Stonewall Berkeley, CA 94705			
Residence (if different):					
Inventor's Signature:		Date:			
PART B: CLAIM TO PRIORITY OF FOREIGN APPLICATION(S) UNDER 35 U.S.C. § 119(a-d)					
Country	App. No.	Filing Date			
PART C: CLAIM TO PRIORITY OF U.S. PROVISIONAL AND NONPROVISIONAL APPLICATION(S) UNDER 35 U.S.C. § 119(e) AND § 120					
Serial No.	Filing Dat	<u>Status</u>			
60/410,173	09/11/200	2 Abandoned			

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INVENTORSHIP DECLARATION BY JOINT INVENTORS

PART A: INVENTOR INFORMATION AND SIGNATURE

Full name of FIRST inventor: Victoria Yamazaki						
Citizenship: <u>US</u>	Mailing Address:	77 Dow Place, Apt. 907 San Francisco, CA 94107				
Residence (if different):		•				
Inventor's Signature:		Date:				
Full name of SECOND inventor: Robert J. Schafer						
Citizenship: <u>US</u>	Mailing Address:	820 San Ramon Way Sacramento, CA 95864				
Residence (if different):						
Inventor's Signature:		Date:				
Full name of THIRD inven	tor: Morrison Ulman	1	-			
Citizenship: <u>US</u>	Mailing Address:	2295 Latham St., Apt. 8 Mountain View, CA 94040-1600				
Residence (if different):						
Inventor's Signature:		Date:				
Full name of FOURTH inventor: John T. Groves						
Citizenship: <u>US</u>	Mailing Address:	221 Stonewall 1400 Queens Borkeley, CA 94705 Benkeley	RI G			
Residence (if different):		94	748			
Inventor's Signature:	for the	Date: 1/19/06				
PART B: CLAIM TO PRIORITY OF FOREIGN APPLICATION(S) UNDER 35 U.S.C. § 119(a-d)						
Country	App. No.	. Filing Date				
PART C: CLAIM TO PRIORITY OF U.S. PROVISIONAL AND NONPROVISIONAL APPLICATION(S) UNDER 35 U.S.C. § 119(e) AND § 120						
Serial No.	Filing Dat	te <u>Status</u>				
60/410,173	09/11/200	2 Abandoned				



Attorney Docket No. 54795-8002:US00

PATENT

UNITED STATES PATENT AND TRADEMARK OFFICE

IN RE APPLICATION OF:

YAMAZAKI, et al.

APPLICATION No.: 10/661,790 FILED: September 11, 2003

FOR: MEMBRANE BASED ASSAYS

EXAMINER:

FOSTER, CHRISTINE E.

ART UNIT:

1641

CONF. NO:

9161

Declaration Under 37 C.F.R. §1.132

Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450

Sir:

- I, Victoria Yamazaki, declare and state that
- 1. I was employed by Synamem Corporation and Proteomic Systems, Inc. from 2001-2004. During this time I held the positions of Senior Scientist, Director of Membrane Biology, VP, Biological R&D, and Secretary of the Corporation.
 - 2. I received my Ph.D. from Stanford University in 1999 in Biophysics.
- 3. I have been active in the field of biochemistry and biophysics for over 18 years. Two key areas of my technical expertise are biophysics and biochemistry.
- 4. I am a named co-inventor of the subject matter embodied claims 1-41 of the above-referenced application.
- 5. On December 16, 2004, a manuscript was submitted for publication in the Journal of the American Chemical Society based on experiments and studies which I performed, directed and/or analyzed concerning the effects of ligand binding on fluidity of a supported membrane microarray (copy of the published paper enclosed herewith).

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23-JAN-06 18:36;

6. As described in the article, a lipid microarray was prepared using the lipids DMPC (98.75%) and NBD-PG (1 mol %). The lipid array also included 0.25 mol % of a GPI-linked form of Intercellular Cellular Adhesion Molecule 1 (ICAM-1).

- The lipid microarray was exposed to increasing concentrations of a phycoerythrin-conjugated anti-ICAM-1 antibody having specific binding affinity for ICAM-1. Before and after binding, the fluidity of the lipid microarray (referred to in the article as "membrane mobility") was measured by fluorescence recovery after photobleaching (FRAP).
- 8. As seen in the data presented in the article, a decrease in lipid fluidity was found upon binding with the anti-ICAM1 antibody (see Fig. 2).

I declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of title 18 of the United States Codes and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

Date: January 23, 2006

ABS.: MPI;

Signed: <u>LUICINA</u> Victoria Yamazaki

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